## NEW DESCRIPTIONS

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# TWO NEW SPECIES OF SPIDERS OF THE GENERA CHEIRACAN-THIUM KOCH AND CLUBIONA LATREILLE (FAMILY: CLUBIONIDAE) FROM INDIA<sup>1</sup>

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The spiders of the family Clubionidae are very little known in India. I have described previously (1962) a single species of the genus *Cheiracanthium*; subsequently Patel & Patel (1973) described a second species and very recently (1975) I have described the third species of this genus from India. The spiders of the genus *Clubiona* are practically unknown in the Indian fauna. Recently Patel & Patel (1973) described a single species of the genus *Clubiona* from Gujarat.

While examining the spider collection received from Dr. G. L. Sadana, Punjab Agri-

cultural University, Ludhiana, Punjab, I came across two new species belonging one each to the genera *Cheiracanthium* and *Clubiona* which are described here.

All the type specimens will in due course be deposited in the National Collections of Zoological Survey of India, Calcutta.

## Cheiracanthium sadanai sp. nov.2

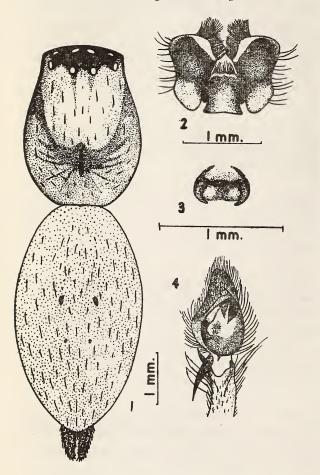
General: Cephalothorax, abdomen and legs light green. Total length 8.00 mm. Cephalothorax 3.20 mm long, 2.30 mm wide; abdomen 4.80 mm long, 2.50 mm wide.

<sup>1</sup> Accepted February 1976.

species after Dr. G. L. Sadana, Agricultural University, Ludhiana, who collected this specimen for my study.

<sup>&</sup>lt;sup>2</sup> It is with much pleasure that I have named this

Cephalothorax: Longer than wide, wider in front, clothed with fine hair and a few spine-like hairs, moderately convex, cephalic region slightly higher than posterior region. Eyes pearly white, anterior row slightly recurved and posterior row procurved; lateral eyes nearly contiguous; medians nearly oval and white, slightly larger than laterals. Ocular quad longer than wide and slightly wider behind than in front. Middle of cephalothorax provided with



Figs. 1-4. Cheiracanthium sadanai sp. nov.
1. Dorsal view of female, legs omitted; 2. Maxillae and labium; 3. Epigyne; 4. Right male palp, ventral view.

a fovea. Chelicerae strong, nearly vertical and dark brown in colour, provided with inner scopulae, inner margin provided with two small teeth but outer margin with one tooth large and another one very small. Maxillae and labium as in text-fig. 2 provided with deep brown colour. Sternum heart-shaped, pointed behind, clothed with fine hairs. Legs long, clothed with hairs and spines. Anterior legs longer than posterior. Male palp as in text-fig. 4.

Abdomen: Rather long, narrowed posteriorly, clothed with pubescence and some long hairs. Ventral side uniform pale coloured. Epigyne as in text-fig. 3.

Holotype female, allotype one male in spirit. Type-locality: Ludhiana Agricultural University compound, Punjab, India. Coll. Dr. G. L. Sadana, 12-xi-1975.

This species resembles *Cheiracanthium danieli* Tikader, but it can be distinguished as follows: (i) Abdomen dorsally pale-greenish in colour but in *C. danieli* abdomen dorsally brownish-green. (ii) Epigyne and male palp structurally different.

Clubiona ludhianaensis sp. nov.

General: Cephalothorax and legs brownish green, abdomen pale-green. Total length 11.00 mm. Cephalothorax 4.20 mm long, 3.00 mm wide; abdomen 6.80 mm long, 3.60 mm wide.

Cephalothorax: Longer than wide, wider in front, clothed with fine hair and some spine-like hairs; convex, cephalic region slightly higher than posterior region. Eyes pearly white, posterior row longer and slightly procurved; anterior row nearly straight. Ocular quad wider than long and wider in behind, all eyes nearly of same size. Middle of cephalothorax provided with prominent fovea. Chelicerae strong, nearly vertical and dark brown in colour, inner margin provided with two equal size teeth and outer margin with three teeth but middle one larger than other two teeth. Maxillae and labi-

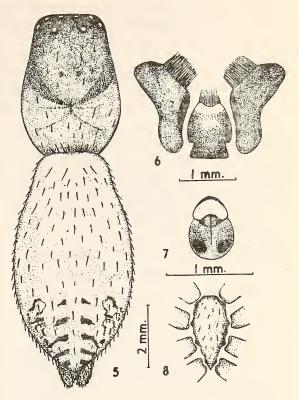
um as in text-fig. 6, provided with deep brown colour and anterior end of maxillae provided with conspicuous scopulae. Sternum nearly heart-shaped, longer than wide, clothed with fine hairs; border just opposite of coxa of legs provided with conspicuous dark brown marks as in text-fig. 8. Legs long, stout, clothed with hairs. Posterior legs longer than anterior legs. Tibiae of I and II provided with two pairs of ventral spines and metatarsi and tarsi also provided ventrally with scopulae.

Abdomen: Longer than wide, narrowed posteriorly, clothed with pubescence. Posterior half of abdomen provided with brown markings as in text-fig. 5. Ventral side uniform pale colour. Epigyne as in text-fig. 7.

Holotype female, paratype one female in spirit.

Type-locality: Ludhiana, Punjab Agricultural University compound, Punjab, India. Coll. Dr. G. L. Sadana, 10-xi-1975.

This species resembles Clubiona pashabhaii Patel & Patel but it can be distinguished as follows: (i) Posterior half of abdomen provided with brown markings but in C. pashabbaii abdomen provided with three rows of longitudinal deep brown dots. (ii) Epigyne structurally different.



Figs. 5-8. Clubiona ludhianaensis sp. nov.5. Dorsal view of female, legs omitted; 6. Maxillae and labium; 7. Epigyne; 8. Sternum of female.

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the genus *Cheiracanthium* Koch (Family: Clubionidae) from India. *J. Bombay nat. Hist. Soc.* 72(1): 43-45.